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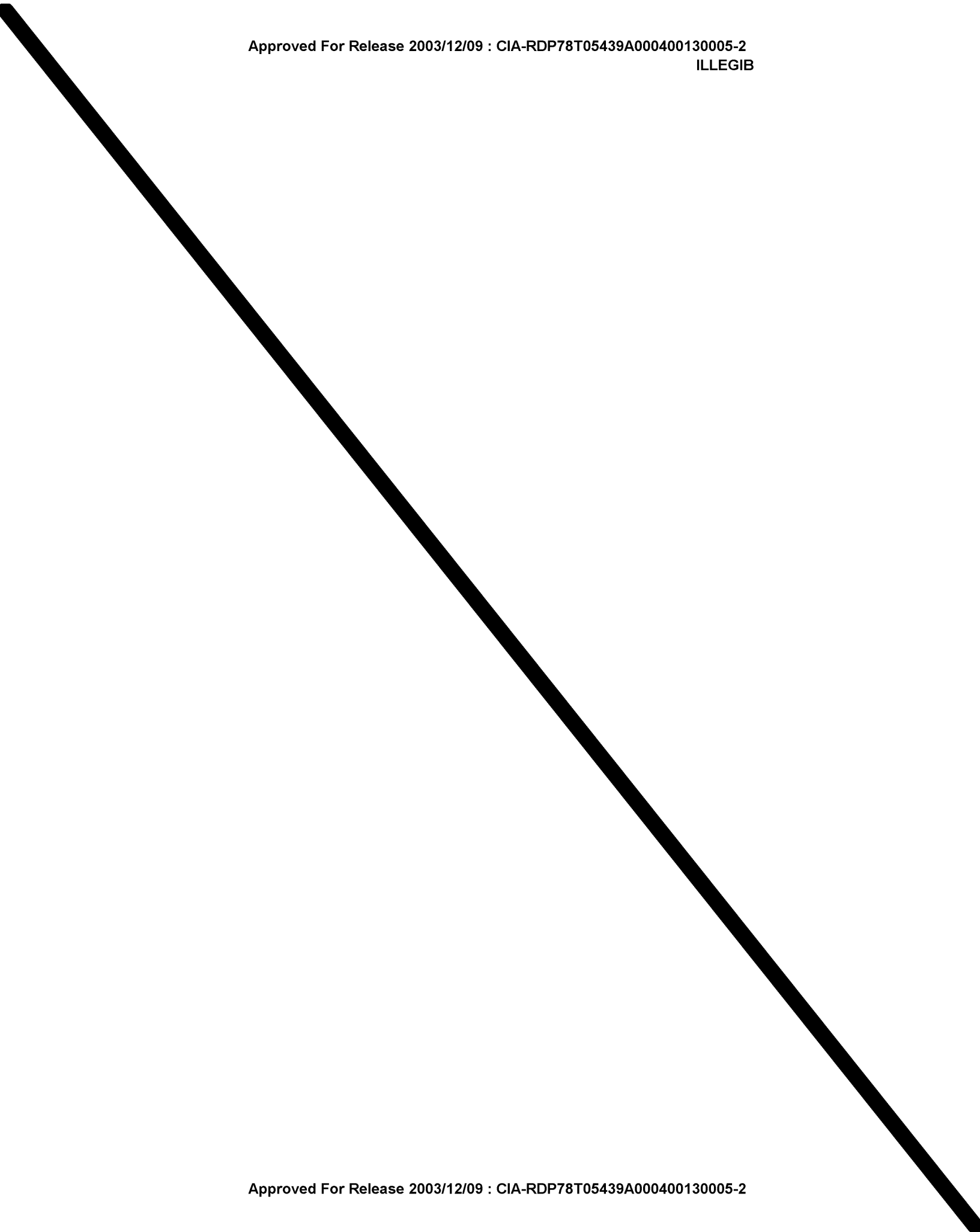

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CENTRAL INTELLIGENCE AGENCY
PHOTOGRAPHIC INTELLIGENCE REPORT

LIU-LI-HO RADIO STATION, CHINA

[redacted]

Published and Disseminated by

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

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CIA/PIR-23/64

LIU-LI-HO RADIO STATION, CHINA

The Liu-li-ho Radio Station* is located at 39-38-18N 116-05-20E, approximately 3.0 nautical miles (nm) north-northeast of Liu-li-ho, China (Figure 1). The station covers approximately 285 acres, and contains a fenced operations area and an adjacent fenced support area (Figure 2).

The operations area contains a domed multistory studio/control building, 120 by 120 feet (Item A, Figure 2); one multistory transmitter building, 120 by 50 feet (Item B, Figure 2); one multistory transmitter building, 100 by 55 feet with a 90- by 45-foot wing (Item C, Figure 2); four cooling ponds, each 50 feet in diameter; approximately 20 smaller buildings; and 24 self-supporting lattice towers, each bearing a crossarm on top.

The 24 lattice towers are capable of supporting up to 23 high-frequency curtain arrays. Lack of adequate photography precludes the identification of all the transmission lines and it cannot be determined if a curtain array is present between each set of towers. The crossarms on the towers indicate that each curtain array has a reflector screen and/or beam-switching capacity. Table 1 gives the azimuths and other mensural data for each curtain array, with nominal design frequency for both four bays and eight bays.

At the Hsien-yang Radio Communications Station, China, 1/ it was assumed, based on the number of feed points, that each curtain array probably contained four or eight bays (one bay equaling one-half wave length). At Liu-li-ho, feed points cannot be established, but the similarity between these two stations suggests that the higher curtain arrays at Liu-li-ho may each contain four bays, and those of lower height may each contain eight. Table 2 groups the antenna arrays by their orientation, and predicates the number of bays for each array on the basis of its height. Measurements in both Tables 1 and [redacted]

The support area contains about 33 buildings, including 16 barracks, 3 administration buildings, and 14 storage and miscellaneous buildings.

*Tou-tien Radio Station, Bombing Encyclopedia, BE No [redacted]

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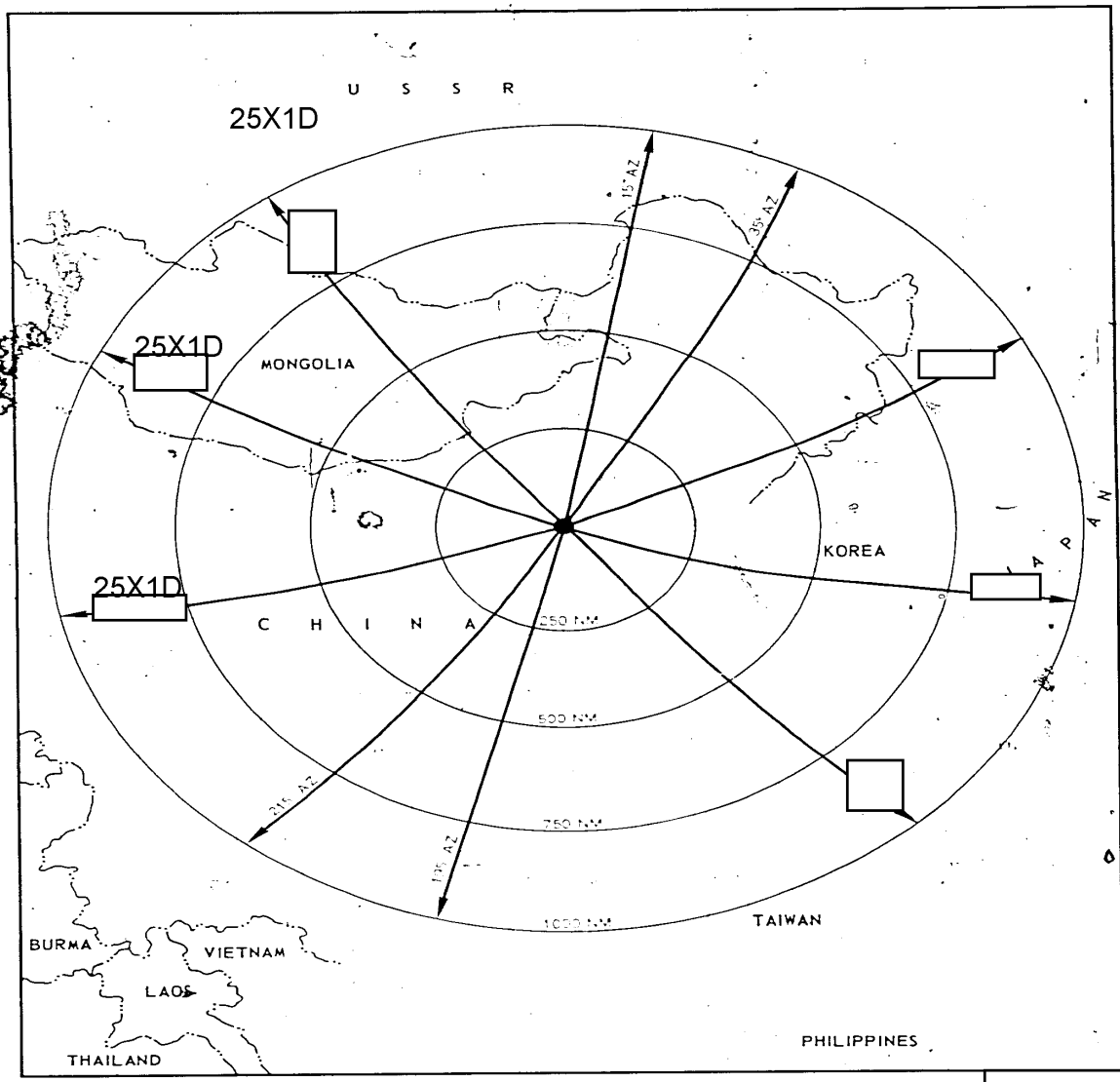

FIGURE 1. LOCATION OF LIU-LI-HO RADIO STATION, PLOTTED ON GNOMONIC PROJECTION, SHOWING PROBABLE DIRECTION OF TRANSMISSIONS.

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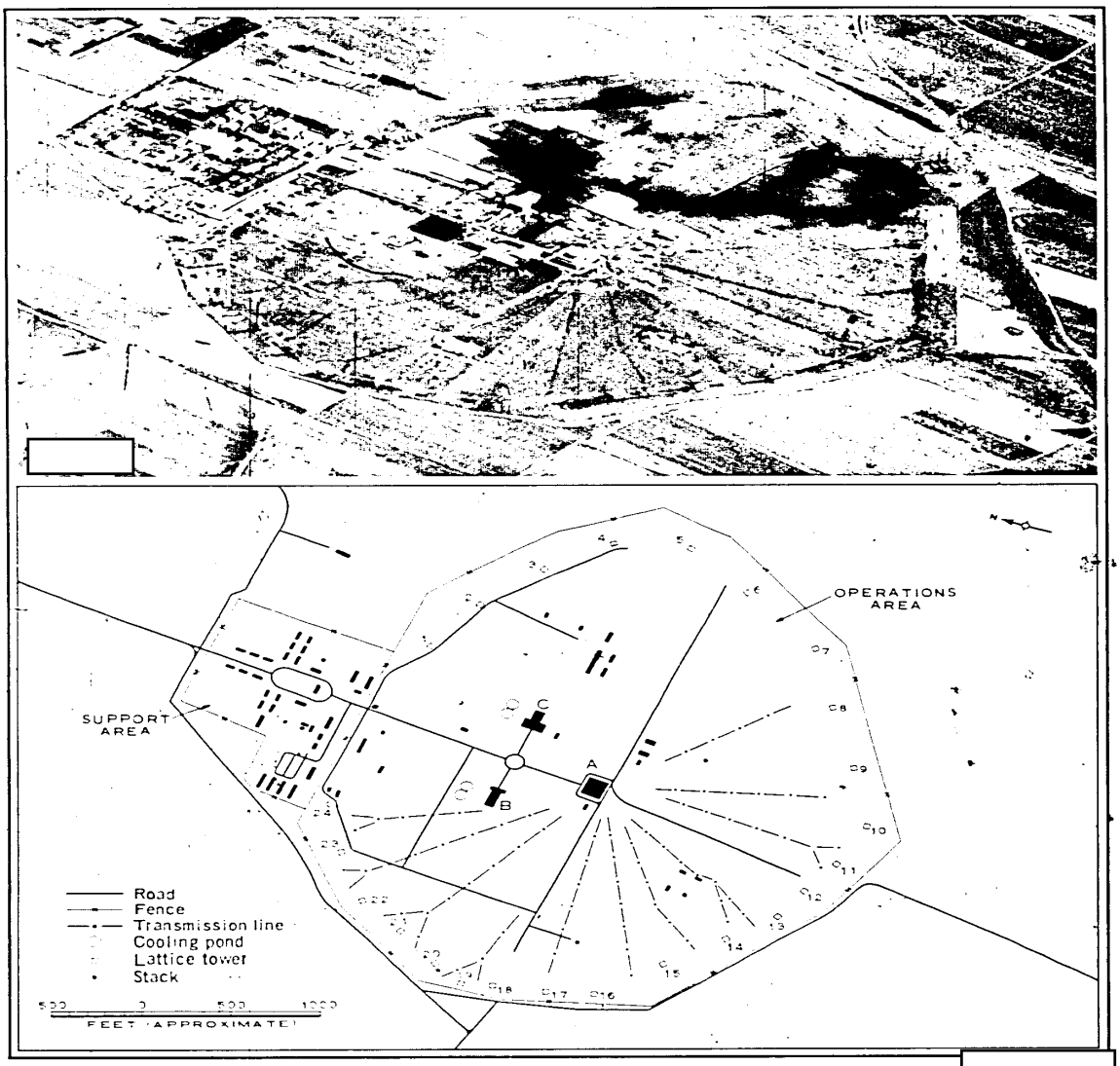

FIGURE 2. LAYOUT AND FACILITIES OF LIU-LI-HO RADIO STATION, CHINA.

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Approved For Release 2003/12/09 : CIA-RDP78T05439A000400130005-2

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MAPS OR CHARTS

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REQUIREMENT

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PROJECT

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